

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Bill Kelsey - N8ET - Kanga US" <kanga@brutus.bright.net>
Subject: [581] (Fwd) GQRP - GQ Transceiver
Message-ID: <199609271813.0AA04028@brutus.bright.net>

I thought that some of you who have built the GQ-40 G-QRP Club project kit might be interested in the following that was posted on the GQRP list...

73

----- Forwarded Message Follows -----
From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "George T. Pasek Jr." <pasek001@maroon.tc.umn.edu>
Subject: [555] 49er Freq.
Message-ID: <41657.pasek001@maroon.tc.umn.edu>

I'm having a tough time getting my 49er to tune to 7.040.0

My kit is one of the recent batch shipped (last week) and has the C21 (5pf) across C6.

As is, the tuning range is: 7.040.30 - 7.044.64
With C21 changed to a 10pf: 7.040.30 - 7.043.66
With C21 removed: 7.040.75 - 7.048.30
With C21/C6 shorted (no c's): 7.038.40
With C21 @ 5pf and 6.8pf across crystal: 7.040.50 - 7.043.88

Any suggestions on how I can get this little guy to center on 7.040 ? It seems like everything I try affects the top end and not the bottom. The range is great, I just would like it to center on .040.

Tnx
de George
WD0AKZ

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: eleon@msu.edu (Dr. Edgar Leon)
Subject: [562] Adapting Audio Amp and Speaker
Message-ID: <v01530501ae71b9d487de@[204.22.210.53]>

Hi Guys:

I am in the process of adapting a Radio Shack small audio amp and speaker to my HW-8 rig. I already know that the audio amp runs with 9 volts. I have=

to identify the best source for this power from within the HW-8, reduce it= from 12 volts to 9 volts and then try to put it all self enclosed inside= the radio chassis. Has anybody done this before? Any help or pointers are= appreciated.=20

73's

Edgar Leon - WR8Z
1474 Wilshire Road
Haslett, Michigan 48840
517-373-4582

Edgar Leon=20
eleon@msu.edu
Michigan Department of Education
Migrant Education Consultant
(517)373-4582 Fax:(517)373-4589

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Michael Connor" <mikec@primenet.com>
Subject: [593] Another TenTec Question
Message-ID: <199609271922.MAA01055@primenet.com>

Ok TT Gurus,

Another question - What is the
value of the TenTec Model 207 Antenna tuner?

Thanks,
Mike
NQ7K

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [616] Bare Essentials
Message-ID: <Pine.SUN.3.91.960927193244.20425A-100000@kitsune.swcp.com>

Thanks all for the time you spent looking for the 50C5 xmtr article.
Looks like I've got a few reprints coming in the mail.I'm planing on
putting it on 40 m and using my Motorola R-390 for the rcvr. Should be

fun as long as I take all safety precautions!! Thanks for the tip for using the isolation transformer. I think I can get one at the local surplus joint. I'm going to go buy some xtals there also, and try to find a rock for 7.040. I think it would be fun to put the "Bare Essentials" on 160 meters where a few more watts would help. Anyone do 160 m qrp? If so what freq.? I used to QRO 160 for years and had fun. Good band and great for local ragchewing. Thanks again for the response. Tom WB5QYT

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Harley L. Miller" <hmliller@sound.net>
Subject: [561] Bare Essentials xmtr
Message-ID: <324B44E7.2BC7@sound.net>

On 24 Sept Tom Whalen wrote:

>Years ago when I was a Novice way back in 1968 I found an article in
>Popular Electronics called "The Bare Essentials Transmitter". The
>single 50C5 did a great job and was fun to build. Been trying to find
>that schematic for a long time. A few of us here in town built the xmtty >and no
one seems to be able to come up with a working model of plans.

=====

Tom, I dug through my stack of old PEs with no luck, then found it in Electronics Illustrated March '68. W5LET, Jim White did the article. If you can't find the book, email me and we'll see what we can arrange. Brian, AF4K raised the question of who was building qrp tube xmtrs, and about 6 people are interested at this time. Contact Brian at: bry@mail1.mnsinc.com if you would like to get into the discussion. That's mail one in the address.

Harley L. Miller WB0ROQ
QRP-L #393 ARS #77
5709 NW Flintridge Ct
Kansas City MO 46151
(816) 741-1858

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: camqrp@cyberg8t.com (Cam Hartford)
Subject: [591] Contest Certificates
Message-ID: <199609271925.MAA12425@key.cyberg8t.com>

>Hi Everyone,
>

>Just received my certificate for the '95 Holiday Spirits Homebrew Sprint.
>Next to it, my certificate for the '96 ARRL International DX Contest looks
>like a piece of ____ (appropriate negative pronoun left to the imagination
>and creativity of the reader.). Wish you guys could teach the ARRL a
>thing or two. Thanks very much guys. You are a class act.
>
>cheers, Paul
>VE7CQK
>email: paul11@wizard.ucs.sfu.ca
>

Paul and all -

Credit for the certificates goes to Steve, N2MNN, who very generously has taken over production of them for me. Steve has done a top-notch job in producing quality certificates and getting us caught-up. His last mailing finally made us current, the first time since I took over this job (something like 3 years?)

Thanks for the kind words, Paul, and thanks to Steve for his much-needed help. Makes it worth all the time and effort expended.

72/73,

Cam N6GA
QRP ARCI Contest Manager

P. S. Yes, the Fall QSO Party is coming up October 19-20. Rules are in the QQ, and I'll post them here as the time gets closer.

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [594] EMPS
Message-ID: <199609271936.TAA10911@chuck.dallas.sgi.com>

Eighty Meter Propagation Study

0000UTC October 1, 1996 until 0000UTC April 1, 1997 (seemed appropriate). Suggested searching area from 3.560MHz to 3.590MHz, but the whole band is open. Thinking mainly of the 3.560 QRP calling frequency and the 3.579MHz colorburst frequency that is used in a lot of crystal controlled rigs.

Everybody starts at zero on all counts.

..
Practice sessions already in progress.

SIG

Chuck Adams (K5F0 CP-60) 49/49/50 adams@sgi.com

EMPS QS0s=0 STATES(w/c)=0/0 DX=0

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [600] FOX: Rules [long]
Message-ID: <199609272044.UAA11268@chuck.dallas.sgi.com>

Gang,

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+-----+
|  THIRD ANNUAL INTERNET QRP FOXHUNT SCHEDULE -- 1996      |
|  Version 1.000 - Posted to QRP-L September 27, 1996      |
+-----+
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I have done the best that I could and I wish to thank everyone who is participating and those that wanted to participate, but this thing has gotten big. Just look at the number of man-hours that are set aside for this years big event. If I left anyone out, it was either oversight, stupidity, or lack of room on my part or the schedule. Omissions were not done on purpose.

For those in the newbie list of subscribers<less than a year> here is the info: (subject to slight changes at the whim of K5F0) :-)

1. A followup posting will give a list of stations called 'foxes'.
2. They will come on at time periods listed and I have their states listed along with their calls, names and email adr. They will call CQ and standby. Freqs will be on 40M NEAR but not on the QRP calling freq of 7.040MHz. I want the foxes to not operate exactly on 7.040MHz to allow the gang owning 40-9ers to have a clear frequency to work others. The 40-9ers are 'rock-bound' and can move some but not much. Deviations in schedule will be posted to the list ASAP, but there are no guarantees in life. NOTE: hunters must not call CQ for the fox.
3. All foxes will be QRP and you must be QRP too to be in the running for the prizes. Prizes are being accumulated and will be announced at a later date. I have an NN1G GM-xx that I will give, Doug Hendricks has a complete set of QRPP to give, and I'll take email on any other

donations and post those later in Oct. Only members of the qrp-l mailing are eligible for the prizes. You need to be a member just to keep up with the schedule changes and the fun postings. ;-) :-)

4. You work the guy and you get one point and he gets one point. Exchange RST, State/Country/Province, name, and QRP-L NR or power level. Work each fox no more than once per night as this hinders others and will be considered un-sportsmanlike conduct. Also please do not try to work other stations on the same freq as the fox. A fox may work QRO stations too that call. The fox will post results within a few days of their time period. K5FO will post periodic standings for the top scores.
Due to the way the list came out, I felt bad about CA, so both CA stations are worth two points. I added N6GA and his two sessions will result in three foxes for that week. Hey, what's six hours anyway? :-)
If you don't already have a qrp-l number, send email to LISTSERV@LEHIGH.EDU and in the body put RUN QRP-L X GETNR 'yourcall'. You gotta be a subscriber to do this though.
 5. Two groups, foxes and hunters. Highest score(s) in each group gets a big prize. Limit one prize per entry, i.e. a fox cannot also take first in the hunter category too. Final results to be determined by K5FO and the decision of the judge is final. Prize pool work in progress.
 6. The Novice/Tech+ individuals have special status. You can work them once only for points. They are worth 5 points. This is equivalent of 10 hours of work trying to catch a regular fox. They will not have a regular schedule, but they will post a week in advance to the group when they will be on. Each N/T will be on at least once per month and they are allowed to operate twice per month for points. They should be able to upgrade by March on their code speed. :-) Work them at their speeds please. This is to help them get upgraded sooner.
 7. I think that's all. It's supposed to be fun and not complicated.
- A. The purpose of this exercise is not a contest. It is and has always been to generate QRP on the air activity during the week, when there are not big contests in progress, just this one :-). This exercise/event/hunt/contest/etc. ... is probably the longest running official test of it's type in the world. Noone else would try this, for sure. Remember, it's just a hobby.
As a matter of point of reference, last year's activity generated more than 3,500 two way QRP exchanges, maybe more 2xQRP exchanges than all the other QRP contests put together.
- B. The foxhunt helps this group test out rigs, show off operating skills, develop operating skills, test antennas, etc. I still feel strongly that QRPers have got to get on the air. What good is it to spend a lot of time and money of building, etc. and not put the rig(s) on the air to have fun with? We gotta hold on to the electromagnetic spectrum by using it. IMHO.
- C. We do CW only for this one, 'cuz the majority (at the present time) of QRP work is done via CW and it simplifies things for this event.
The fox will go at your speed, so if you think you are too slow - don't

worry. Just go for it.

- D. This posting may be reproduced in QRP newsletters or web sites with all the info intact but may be modified for formatting issues.
- E. A copy of this notice and any updates will be placed at the FTP.LEHIGH.EDU in October so that it doesn't have to be reposted in it's entirety to this group. :-) And it will be updated as needed changes occur.
- F. After working a fox, the "hunters" should move off freq and work other members of the group. At least 3KHz is suggested to be considerate.
- G. Postings to this group re this event should start with FOX: in the subject line so that those individuals that want to automate their mailers to "kill" such postings may do so. :-)
- H. Mark your calendars and good luck to all and let us all hope for fantastic propagation. May your weak signal be strong, go far, and be heard by all.
- I. And, of course, the rest of the week is open for general QSOs too. Keep those rigs warmed up and on the air.

Schedule to be posted separately.

dit dit es gl

SIG

Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com

EMPS QSOs=0 STATES(w/c)=0/0 DX=0

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [601] FOX: Schedule [long]
Message-ID: <199609272044.UAA11271@chuck.dallas.sgi.com>

Gang,

The following is the official fox list for the QRP-L Foxhunt season of 1996-1997. Minor changes may occur as the season goes along so stay tuned to QRP-L for notices.

For those not up to date on UTC, subtract one day from the date shown to have the correct date in the USofA. The time difference depends upon your time zone and as such is left as an exercise for the reader.

See other posting on the rules for the "foxhunt".

CALL Name QTH email

WA1GUV Tom Burlington, VT cooper@gmpvt.com

W1HUE	Larry	Idaho Falls, ID	lve1@inel.gov
AA1IK	Ernie	Canaan, NH	gregoire@endor.com
K2NF	Norm	Orange City, FL	norm@uu1238.flowerslabs.com
KF2PH	Nick	Patchogue, LI, NY	kf2ph@bnl.gov
N2VPK	Mark	Clarence, NY	facmsa@facilities.buffalo.edu
N2TNN	Dean	Somerset, NJ	n2tnn@ifu.net
W03B	Bob	Pasadena, MD	bobwhitewo3b@geocities.com
AE4IC	Bob	Greensboro, NC	ae4ic@nr.infi.net
KS4L	Randy	Huntsville, AL	wr.moore@worldnet.att.net
KA5DVS	Jim	Hightstown, NJ	james@research.nj.nec.com
AB5OU	Tim	Las Cruces, NM	tpettibo@nmsu.edu
W5TFB	Jack	College Station, TX	jbryant@math.tamu.edu
WB5QMP	Randy	Moscow, ID	rfoltz@unicorn.it.wsu.edu
WA5VQK	Tim	Austin, TX	tahrens@devmail.sps.mot.com
N6GA	Cam	Claremont, CA	camqrp@aol.com
N6WG	Bob	Newark, CA	bob_tellefsen-cnse97@email.mot.com
KU7Y	Ron	Reno, NV	ku7y@sage.dri.edu
NQ7K	Mike	Glendale, AZ	mikec@primenet.com
N8VAR	Ron	Dayton, OH	doyler@uh2297p01.daytonoh.ncr.com
WB8ZJL	Paul	Oakland Twp, MI	prvalko@Oakland.edu
WB8RUQ	Ron	Milford, MI	majewski@erim.org
N9DD	Tom	South Bend, IN	n9dd@aol.com
AE9K	Brian	Waterford, WI	bcieslak@world.merge.com
W0CH	David	Seneca, MO	w0ch@juno.com

Novice - Tech+ List

KB0ROL	Brad	Aurora, CO	kb0rol@juno.com
KB9JLO	Dan	Decatur, IL	bcdlr@midwest.net
WA7SSA	Niel	Idaho Falls, ID	nskousen@scientechn.com
WD4MSM	Barry	South Bend, IN	barry.p.keating.1@nd.edu

Date	Time(UTC)	Call	Name	State
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Oct 3	0100-0200	AB5OU	Tim	NM
Oct 4	0200-0400	AE9K	Brian	WI
Oct 10	0100-0300	K2NF	Norm	FL
Oct 11	0130-0330	W03B	Bob	MD
Oct 15	0200-0400	NQ7K	Mike	AZ
Oct 17	0100-0300	N9DD	Tom	IN
Oct 22	0200-0400	KF2PH	Nick	NY
Oct 23	0100-0300	WA5VQK	Tim	TX
Oct 29	0100-0300	WB8RUQ	Ron	MI
Nov 1	0200-0400	WA1GUV	Tom	VT

Nov	5	0200-0400	KA5DVS	Jim	NJ
Nov	7	0200-0400	WB5QMP	Randy	ID

Don't forget 40-9er contest Nov. 11-15!

Nov	12	0100-0300	N2TNN	Dean	NJ
Nov	14	0100-0300	K2NF	Norm	FL

Nov	19	0200-0400	KU7Y	Ron	NV
Nov	21	0200-0400	N2VPK	Mark	NY

Nov	26	0100-0300	AE4IC	Bob	NC
Nov	28	0200-0400	W1HUE	Larry	ID

Dec	4	0200-0400	KS4L	Randy	AL
Dec	5	0200-0400	NQ7K	Mike	AZ

Dec	10	0100-0300	N8VAR	Ron	OH
Dec	12	0300-0500	N6GA	Cam	CA

****Cam gets another date later in Jan****

Dec	17	0200-0400	W5TFB	Jack	TX
Dec	18	0300-0500	W0CH	Dave	MO

Dec	24	0100-0300	AA1IK	Ernie	NH
Dec	27	0200-0400	WA5VQK	Tim	TX

Dec	31	0100-0300	WB8ZJL	Paul	MI
Jan	2	0400-0600	N6WG	Bob	CA

Jan	7	0300-0500	W0CH	Dave	MO
Jan	9	0100-0300	W03B	Bob	MD

Jan	14	0100-0300	N8VAR	Ron	OH
Jan	15	0200-0400	KS4L	Randy	AL

Jan	22	0200-0400	AB50U	Tim	NM
Jan	24	0200-0400	KF2PH	Nick	NY

Jan	28	0100-0300	WB8RUQ	Ron	MI
Jan	29	0100-0300	AE4IC	Bob	NC

Feb	4	0300-0500	N2VPK	Mark	NY
Feb	5	0300-0500	WB5QMP	Randy	ID

Feb	11	0100-0300	WB8ZJL	Paul	MI
Feb	13	0200-0400	W1HUE	Larry	ID

Feb 18	0200-0400	KA5DVS	Jim	NJ
Feb 21	0200-0400	AE9K	Brian	WI
Feb 25	0100-0300	AA1IK	Ernie	NH
Feb 27	0200-0400	W5TFB	Jack	TX
Mar 5	0400-0600	N6WG	Bob	CA
Mar 7	0100-0300	N9DD	Tom	IN
Mar 12	0200-0400	KU7Y	Ron	NV
Mar 14	0100-0300	N2TNN	Dean	NJ
Mar 19	0200-0400	WA1GUV	Tom	VT

SIG

Chuck Adams (K5FO CP-60) 49/49/50 adams@sgi.com
 EMPS QS0s=0 STATES(w/c)=0/0 DX=0

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
 From: Bob Hightower <ki7mn@dancris.com>
 Subject: [563] FYB0 Contest
 Message-ID: <199609271519.IAA20437@dancris.com>

I have posted the rules for the AZ SQRPIons contest, Freeze Your B___ Off,
 on my page, <http://www.dancris.com/~ki7mn>, or you can go directly to them at
<http://www.dancris.com/~ki7mn/fyborule.html>.

73,

Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any
 order of importance!)

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
 From: "John A. Evans - N3Q00" <jaevans@cos.cst.titan.com>
 Subject: [566] History of QRP and Joy....
 Message-ID: <199609271543.LAA59328@nss2.CC.Lehigh.EDU>

Ade,

A number of folks on the qrp-1 list have expressed interest in the
 "History of QRP" book. Are there still copies available?? I'd appreciate
 a post to the list with an update.

73, n3qoo
 john

John A. Evans Chief System Administrator
Office: (719) 528-1800 x164 Titan Client/Server Technologies
Fax: (719) 528-1275 1115 Elkton Dr, Suite 200
email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: David Adams <dave@flowserver.stem.com>
Subject: [602] HM-9 wattmeter vs OHR wattmeter
Message-ID: <9609272046.AA27388@flowserver.stem.com>

Greetings folks! I just purchased an unbuilt heath HM-9 wattmeter.
 Could someone in the know, tell me how this compares to the ohr
wattmeter?

73 de dave, n9uxu---

=====

David J Adams	N9UXU QRP-L #83
dave@flowserver.stem.com	NorCal QRP #1442
(415) 813-5028	Flow Cytometry Specialist

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Bill Kelsey - N8ET - Kanga US" <kanga@brutus.bright.net>
Subject: [580] Houston, Oklahoma City, and Denver/Colorado Springs
Message-ID: <199609271813.0AA04008@brutus.bright.net>

This next week I am going to be in Houston, TX on Monday and Tuesday
evenings, Oklahoma City on Wednesday evening, and Colorado
Springs/Denver on Thursday evening.

Are there any QRP activities planned that I might drop in on??

Let me know before Monday AM.

73

73 - Bill Kelsey - N8ET
Kanga US
kanga@bright.net
419-423-4604
<http://qrp.cc.nd.edu/kanga/>

73 - Bill Kelsey - N8ET
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419-423-4604
<http://qrp.cc.nd.edu/kanga/>

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: wager@juno.com (James W. Cates)
Subject: [585] Howes QRP transceiver want
Message-ID: <19960927.120025.3934.43.wager@juno.com>

I would like a clean one, one my mother would be proud to have me display. It need not work, if repairable. Tnx. jim, WA6GER.

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [613] HV Safety
Message-ID: <19960927.205026.4799.0.wb2vuo@juno.com>

Seeing that most of the subscribers to the list are not running tube gear of any sort, and with the interest in the 50C5 Xmtr in the last week, I felt that this posting is appropriate.

It IS possible to run a transformerless HV supply safely. The method you need requires a GOOD, SAFE ground connection to the chassis, and a SINGLE WIRE connection to the AC line. In addition, your house wiring MUST be up to code. What you do is to connect the chassis to ground FIRST. Then, the "high" side of the P.S. is connected to a well-insulated single conductor, and connected to one prong on a 2-conductor AC plug (old-style). Plus this in, and turn on the power. If the tube lights up, you are all set. If the tube doesn't, then reverse the plug.

This method was used for the Hallicrafters S-38-series of 5-tube AC/DC shortwave RX's, and would allow one to run with an outside antenna without worrying about the neighbors touching the wire and getting knocked for a loop. The best method is the isolation transformer, but they weren't available on my budget back when I got my Novice. And, it was my Dad that grabbed the antler, not a neighbor, but that's another tale...

Another thing to remember is the One-Hand Rule. If you are going to reach into the HV, keep one hand in your pocket so as to not form a complete circuit with your body in line. Even with that, getting bit

was just one of those things that happened now & then. My worse experience with HV DC happened while I was neutralizing the finals on a 6 Meter rig. I had just spent all my bux on a new set of finals, and slipped with the screwdriver whilst adjusting the neutralizing cap. I mad a grab for it, got ahold of it, and laid the back of my hand on the top of the Anodes (with +900 Volts applied...) The muscle spasm that resulted pulled my hand & arm back, and knocked me to the wall. When the stars stopped spinning, I looked for my tools, and couldn't fine the screwdriver (an Xcelite with an 8" long blade) One of my younger brothers came into the shack, and when I told him what I was looking for, pointed to the ceiling. There was about 1/2" of the HANDLE protruding from the plaster ceiling, I had thrown it hard enough to bury the rest in the plaster & lath ceiling. A lesson that stayed with me for sure.

The only equivalent thing I have heard about with a 13.8 V PSU was the tech that melted his ring between the terminals on an Astron RS-75 before the SCR fired.

72/73, Keith, WB2VU0, QRP-L # 582
Trustee, KB2YTW/B 10 Mtr Beacon (28.2860 MHz)
"In the Depths of the Great Bergen Swamp...FN13ac"

and, this time, I used the SpelChecker :)

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [583] HW-8 value
Message-ID: <1.5.4.32.19960927184515.00674ec8@postoffice.worldnet.att.net>

I saw the posting wanting an HW-8 the other day, and considered responding. I have one that I bought years ago, and have never used. But it occured to me, what are they worth?

I bought it from the builder, who had it once sent to Heath to fix some problem after building it. He has since forgotten just what that was, but it's fixed anyway. As far as mods go:

1. S0-239 added, original phono jack still in place.
2. QSK added, works nice.
3. 1/4 inch phone jack added with xfmr to use low-impedance headphones, original 1/4" phone jack still in place.
4. A few small holes drilled in top case to add a speaker, but he never did.

It xmts well (as heard on my general coverage rcv), but doesn't draw the full current claimed by the manual, which says around 430 mA. It's actually

more like 330 mA into a 50 ohm dummy load. Rcv is at 93 mA, right on line with manual's stated 90 mA.

It doesn't receive any bands, and this is probably due to the heterodyne crystals being mistuned. I have been meaning to get in there, but never have. The AF gain does work, however.

It's been well cared for, with no serious scratches or dents. I also have the manual. I'm more into building my own rig right now, and am especially enamored with the Sierra, so might be willing to sell this one off. So, what kind of price seems reasonable?

73,
mike KD0FX
Richland WA QRP-L #576

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [599] Info on Ten Tec List
Message-ID: <n1368283668.80586@msmailgw1.arlut.utexas.edu>

Several have asked what the Ten Tec List might be, and Dave-your email adr. has problems when I replied. (The reply bounces). There seems enough interest to add it to our store of knowledge.

That is a list for discussing all Ten Tec equipment, mods, features, updates, service, etc. much as QRP-L covers the full range of QRP. Lots on their QRP models.

It has a robot server, like this list. Send email to tentec-request@akorn.net, and in body use the command HELP, for further instructions. ---72, Stuart K5KVH

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: James Griffith <GriffithJ@ricks.edu>
Subject: [578] INTRO, nice meeting all of you.
Message-ID: <s24bc016.001@mercury.ricks.edu>

I was sent an E-mail that told me since I was new to the group I needed to introduce myself. So I thought if I was really going to be apart of this group I should.

My name is Jim Griffith, and have been a ham since 1960. My original call in California was WA6JOS, and moved to Rigby, Id in 1968 and changed my call to WA7NDD, those were the days when you had to do that, and have lived here since. I have written several articles for ham magazines, and still write, but have not submitted to a ham magazine since '94. QST October '91 there is a piece about me and a picture. QST November '91 "Bright Star and the Radio Rustlers." QST October '92 "Desert Wheels" Radio Fun July '94 "The Spark" Radio Fun April '94 "Why Should a Young Person Build" and two, so far, unpublished novels.

Hint, if you write for "73 or Radio Fun" you'll have to pry your money out of them, if you get it then. It may or may not have changed, I don't know.

Ham radio has been apart of my life for 36 years, but I could no longer abide the HF SSB. I got tired pounding the key with no challenge in making the contact. I am a long time homebrew fanatic, but with age, my eyes and fingers do not obey as they use to. I got tired of storing boxes of parts for some project I would probably never build, and last spring I sold and gave out completely. I took a brake, bought a boat, and worked in the yard.

I decided I can't get building out of my blood, or making contacts with friendly hams, but I wanted to talk the same language, and learn more technical stuff. The way tests and licences are given now, that pool of people who are technically inclined are mostly gone. So I hope to join a group where I can learn and grow from others with an interest in electronics and building that seems to have left main stream ham radio.

Now you have it all, I have cut myself open and bled all over you screen. I hope to enjoy myself, and have QRP plans.

TNX Jim, WA7NDD
208-745-7264
Rigby, Id.

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: wb5gwb@sprynet.com
Subject: [589] Logging software for EMPS, etc?
Message-ID: <199609271923.MAA18345@m7.sprynet.com>

Old Men,
(and I use that term in its most inclusive sense -- i.e., all Radio Amateurs)

Which logging software do you use/recommend? I mainly want something to log EMPS and TMPs QSOs, ragchews, and occasional QRP contests (I don't understand the foxhunt biz yet). I don't do any *serious* contesting or DXing.

I'd like to be able to summarize, cross-tabulate, and graph my log entries in various ways, such as Chuck, K5F0, suggested in a recent post. I guess this means that the program has to be able to easily export data to an ASCII file or the common spreadsheet formats (Lotus, Excel, etc.) I'd also like to be able to get the log data into a standardized format so that someone can build a multi-station database for analyzing propagation, etc. (also along the lines of Chuck's suggestions).

Since I've been keeping my log on little scraps of paper for the past year or so, I need to be able to easily back-fill the program's database with all these QSOs and the associated dates, times, etc. (I realize that the program will probably not be able to read my little scraps of paper :-)) I just don't want it to automatically put today's date on all the QSOs, etc.) The computer is across the room from my operating position, so I won't normally be able to insert new entries in real time.

Finally, the program has to be easy to use, require minimum operator concentration, and be runnable from Windows 95, or else I'll inevitably fall back on my little scraps of paper! It would also be quite helpful, and would allow me increased operating time, if the software had the capability of walking my dog in the evenings. Around the block would be sufficient, with parameters settable to prevent pooping in certain yards -- I already do enough things that might upset my neighbors.

Is all this practical, or should I just order a few of the nice old spiral bound logbooks from ARRL (and a pooper scooper)?

Thanks much. 72 & 73,

Jeff

Jeff T. Casey / WB5GWB / Long Island, NY / ARCI ARRL ARS QRP-L

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996

From: Tim Pettibone <tpettibo@NMSU.Edu>

Subject: [595] Membership list question

Message-ID: <199609271953.NAA09296@NMSU.Edu>

I can't seem to get the FAQ working at the QRP-L website. Anyone remember how to get a nice, columnized printout of call signs and names of members? Thanks.

Tim AB50U

Las Cruces, NM

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: David Adams <dave@flowserver.stem.com>
Subject: [577] MFJ Analyzers and balun kits
Message-ID: <9609271724.AA26790@flowserver.stem.com>

Hey, does anyone know the fix for the mfj analyzers with the hand capacitance problem? My analyzer (analog only, no freq counter...279?) has this prob and it drives me fairly nuts, but is a second hand unit with not warranty.

73 de dave, n9uxu

Oh...the check has been sent for the balun kit...

=====

David J Adams	N9UXU QRP-L #83
dave@flowserver.stem.com	NorCal QRP #1442
(415) 813-5028	Flow Cytometry Specialist

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Ted Kell" <tkell@nyx.net>
Subject: [556] More JUNO Software
Message-ID: <9609271251.AA04521@nyx.net>

The saying goes that when it rains, it pours. Well when I asked for help obtaining JUNO software, I ended up with bot ver 1.00 and 1.15. Both are now in the tools directory of the QRP-L FTP site. The only glitch is that the 1.00 version is labeled 1.10.

They are at

<ftp://ftp.lehigh.edu//pub/listserv/qrp-l/tools/juno115.zip> and
<ftp://ftp.lehigh.edu//pub/listserv/qrp-l/tools/juno110.zip>

Either seems to work nicely.

72

Ted

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: u1002895@warwick.net
Subject: [615] neqrp test
Message-ID: <324C9F95.71F2@warwick.net>

Little late I am sure, but anyway here are my limited results.
Using a icom 725 @ 4 watts and a long wire w/mfj949e I managed
on 20 mtrs to work ac5am; k5zty; kj5tf; wa1yia;
w0lk; and on 40 i was fortunate to qso with ae4ic; k8jjc; and
for a dash of dx ve3jc.
wish I could have done the whole time but, definately had a ball
as a new no-coder stopped by to see the battery operated setup in
the shed with long wire slopping in attached to various 1 by 2 s
. He heard and saw enuff fun to announce later in the week that
he is hitting the cw tapes again..Thats my certificate guys, he's
seen the fun, and is willing to pay the price..tnx and c u all
in the arci test 21/22?
jim kw3u

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Jerry Parker <jparker@fix.net>
Subject: [551] New Wilderness Page
Message-ID: <2.2.32.19960927063736.0068ec24@fix.net>

Wilderness Radio has a new page:

<http://www.fix.net/~jparker/wild.html>

72,,,Jerry...K

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: PDouglas12@aol.com
Subject: [619] Pacificon Badges
Message-ID: <960927225919_112855172@emout05.mail.aol.com>

Gang,

Requests for badges have trickled down so I am considering printing early.

Any more takers? Remember, these are free, but for delivery in person only (no mail orders!) by Doug Hendricks at Pacificon to QRP folks who want to be identified with NorCal and this group online. Just email me direct with your full name and call.

The list of badges follows:

72,

Preston

ADAMS	CHUCK	K5FO
ADAMS	DAVID	N9UXU
ANDERSON	JEFF	WA6AHL
ANDREWS	JOHN	N5INZ/6
ARMSTRONG	TED	KA6LCL
BENNETT	JIM	N6PDX
BURDICK	WAYNE	N6KR
BURKE	ED	KI7KW
CATES	JIM	WA6GER
CLEVELAND	GROVER	WT6P
DUNDAS	JOHN	AB6DG
FLUSCHE	TONY	AB6BR
FURMAN	SYD	W6QWK
GIPE	MICHAEL	K1MG
GOLDSTEIN	STAN	N6ULU
GRAHAM	DWIGHT	WA6NAE
GRUDIN	JEFF	AC6KW
HARDEN	PAUL	NA5N
HARTFORD	CAM	N6GA
HENDRICKS	DOUG	KI6DS
JONES	DARREL	WD6BOR
PARKER	JERRY	WA6OWR
PEASE	ROGER	KE6PPI
PHILBIN	D.K.	OZ2DKP
POLIZZO	PHIL	AC6LS
QUADROS	JOHN	KB6DLN
SAMMUT	CHARLES	K8MI
SLAVENS	DICK	WA6TMF
SPITTLE	DERRY	VE7QK
STANFORD	LEE	KM6LA
STARK	RON	KU7Y
SWARTZ	ERIC	WA6HHQ
TELLEFSEN	BOB	N6WG
WOOD	MIKE	N6MVE
WRIGHT	VERN	W6MMA
YARNES	DAVID	W7AQK

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Steve Ciciora <scicior@uswest.com>
Subject: [587] Power Splitters
Message-ID: <Pine.SOL.3.91.960927130343.1983I-100000@sp5-316>

While some might not think this is QRP related, but I need this signal generator to help me home brew radios...

I've got an 8640B signal generator missing the Cavity Oscillator, and hope to replace it with a Minicircuits VCO. I think I can get the POS_535 down to 256 MHz... Anyway, the VCO puts out about +8dBm, and I need one output at about 0dBm (-3 to +3 dBm will work) for the frequency counter, and one output about 2.5 dBm (0.5 to 4.5 dBm will work) for the divider chain. I'm hoping to build a power splitter like you use to connect one antenna to two TVs, to get two outputs at about (8 dBm - 3dBm =) 5 dBm. Add a few attenuators (from the back of the ARRL handbook) and it should get me where I want to be. Anybody know how to make a power splitter? I opened one up that the cable guy left on my front lawn (lawn mower found it, so I guess the mower opened it up), and all it consisted of was a small cap to ground, a 180 ohm resistor across the outputs, and a small broadband ferrite that looks like a figure 8 on end (two holes).

I thought the 180 ohm resistor was supposed to be twice the impedance of the in/output impedance, and since TV stuff is 75 ohms, why isn't it 150 ohms? Can I replace it with a 100 ohm resistor and use it for my VCO? (my VCO has 50 ohms out, and the counter/divider want to see 50 ohms in).

Thanks for your help!!
-Steven Ciciora
KB0PJF
Aurora, CO

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [572] Priorities
Message-ID: <Pine.BSI.3.93.960927130423.14787C-100000@u1.abs.net>

Joe,
One comment about your earlier posting. It just proves that you are a man with your priorities straight! Fun first, QRP Second. :^).

ObQRP: Oh, Yes! about the antenna analyzers, just buy them both you will be happy in the long run. I have the MFJ with the freq. counter

QRD DX TU (C) 1986 G.Danny Gingell, K3TKS@abs.net
Maryland Milliwatt Club QRP Reference Library, (301)572-6789

We have been experiencing fairly constant magnetic storming over the past week. The best guess as to the source is the solar north pole's coronal hole. The major effect is to signals propagating over high latitudes. This activity will be continuing this next week :-(but there still will be times of good propagation. Excerpts follow:

		10.7 cm	HF Propagation +/- CON							Mag	Aurora			
		SolrFlx	LO	MI	HI	PO	SWF	%MUF	%K	Ap	LO	MI	HI	
		---	-----	-----							----	-----		
September	27	070	G	F	P	P	01	-25	70	5 25	NV	LO	MO	
	28	070	G	F	P	P	01	-20	70	5 20	NV	LO	MO	
	29	070	G	G	P	P	01	-10	70	4 16	NV	NV	MO	
	30	070	G	G	F	F	01	-05	70	3 12	NV	NV	LO	
October	01	070	G	G	F	F	01	00	70	2 10	NV	NV	LO	
	02	069	G	G	F	F	01	00	70	2 08	NV	NV	LO	
	03	068	G	G	F	F	01	00	70	2 08	NV	NV	LO	
	04	068	G	G	F	F	01	00	70	2 08	NV	NV	LO	
	05	068	G	G	F	F	01	00	70	2 08	NV	NV	LO	
	06	068	G	G	F	F	01	-05	65	3 12	NV	NV	LO	

[illegible]

MINOR STORM	**	*										LOW
VERY ACTIVE	***	***	**									NONE
ACTIVE	***	***	***	*							*	NONE
UNSETTLED	***	***	***	***	***	***	***	***	***	***	***	NONE
QUIET	***	***	***	***	***	***	***	***	***	***	***	NONE
VERY QUIET	***	***	***	***	***	***	***	***	***	***	***	NONE

Geomagnetic Field	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Anomaly	
Conditions	Given in 8-hour UT intervals										Intensity	

HF RADIO SIGNAL PROPAGATION PREDICTIONS (27 SEP - 06 OCT)

High Latitude Paths

CONFIDENCE LEVEL ----- 70%	EXTREMELY GOOD											
	VERY GOOD											
	GOOD											
	FAIR			*	**	***	***	***	***	***	***	***
	POOR	**	**	* *	*							
	VERY POOR	*	*									
	EXTREMELY POOR											

PROPAGATION		Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
QUALITY		Given in 8 Local-Hour Intervals										

Middle Latitude Paths

CONFIDENCE LEVEL ----- 70%	EXTREMELY GOOD												
	VERY GOOD												
	GOOD	*	*	**	***	***	***	***	***	***	***	***	***
	FAIR	* *	* *	*									
	POOR												
	VERY POOR												
	EXTREMELY POOR												

	PROPAGATION	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun		
	QUALITY	Given in 8 Local-Hour Intervals											

Excerpted from weekly report:

Report Released by Solar Terrestrial Dispatch

P.O. Box 357, Stirling, Alberta, Canada

T0K 2E0

Phone: (403) 756-3008

E-Mail: C0ler@Solar.Stanford.Edu

Kent Torell torell@sicom.com 602-483-2867 x40
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260
AB70A qrp-1 57 ARCI 9075 DM33xn 33.55 N 111.078 W

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [575] QRP Clubs
Message-ID: <Pine.BSI.3.93.960927131058.14787D-1000000@u1.abs.net>

Hi Jim,
"8 QRP Clubs!" That only proves that you are a "True Beliver."
I Think I have "11". Add MDMW,FB,KL,& qrp-1. You forgot QRP-L, so you
really have "9". I lost count of all the new clubs popping up. I may
belong to a couple of others that I have forgotten. :^)
The way I look at it, anyone who belongs to 6 or more is a "True
Believer".

72,73 es
QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@.abs.net
Maryland Milliwatt Club QRP Reference Library, (301)572-6789

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: eleon@msu.edu (Dr. Edgar Leon)
Subject: [574] Sale or Swap
Message-ID: <v01530505ae71dc20460d@[204.22.210.53]>

Have the following for sale or swap.

Apple IIE with software, 14400 modem
in box and Microsoft Excel for Windows.
Send private e-mail to eleon@msu.edu
for price list.

73's

Edgar Leon
eleon@msu.edu
Michigan Department of Education
Migrant Education Consultant
(517)373-4582 Fax:(517)373-4589

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: kb0rol@juno.com (Bradley L Mugleston)
Subject: [608] Scout Camp
Message-ID: <19960927.160157.7695.0.kb0rol@juno.com>

Sorry about the late notice, but I haven't been around a computer all day. I will be at scout camp (Venture Leader Training) tonight Friday September 27. I am taking my Explorer II (40M novice) and If I get the chance, between putting peoples hands in warm water, carrying people out side in their sleeping bags, and other scout camp stuff, I will try to get on the air. Check around 7.120 late (lets say maybe 04:00 to 06:00Z) Ill try to be there.

de

Brad Mugleston - KB0ROL
Colorado QRP Club # 170, QRP-L #316, ARRL
QTH - Aurora, CO - DM79oq
KB0ROL@JUNO.COM
BMUG@GWL.COM

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [570] Scout for sale on Ten Tec list
Message-ID: <n1368297365.56067@msmailgw1.arlut.utexas.edu>

If anyone is interested, this is a Scout, band modules and tuner, and I will forward the owner's phone no. by private email. Ten Tec Scouts can be easily turned down to QRP levels, or you can bypass the final for full time operation as a Model 556 Argo. It is a great Field Day station, if you have a Marine or similar battery. (I would not part with mine!)

72, Stuart K5KVH

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996

From: "Ahrens Tim" <tahrens@devmail.sps.mot.com>
Subject: [586] Solargizer vs Wet cells / Gel cells
Message-ID: <9608278438.AA843860810@devmail.sps.mot.com>

I just got some information (marketing of course) on a product called a "Solargizer". It is sold as a miracle worker for car/truck/etc types of batteries in that it will remove the sulfation that is caused by the charging operation.

"Using pulse technology, these systems emit a pulsating dc current into the battery. These PULSES remove the sulfates from the plates.. and reintroduce them back into the electrolyte."

Anybody heard/used these things? Seems the army bought thousands of them for their tanks, apcs, etc, and is 'happy' with them.

Since a lot of us run our rigs on car/marine batteries, I figured this was of QRP-L interest.

Thanks,

Tim WA5VQK

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Marshall Emm <75230.1405@CompuServe.COM>
Subject: [607] Sorry!
Message-ID: <960927221404_75230.1405_HHB60-1@CompuServe.COM>

The Windows post slipped through in error. I'm VERY sorry, but if anyone wants to castigate me further, please do so by email to me, not the list.

73
Marshall
AA0XI

OBQRP--
How many QRPrs does it take to change a lightbulb?
None. Lightbulbs draw too much current.

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Dan Tayloe-P26412" <Dan_Tayloe-P26412@email.mot.com>
Subject: [565] Specs for a 2SC2075?
Message-ID: <M27196633.002.edn92.1.960927152827Z.CC-MAIL*/OU=SATCG/OU=AZBH/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

I have some 2SC2075s that I received recently as a substitution for some MRF475s.

I do not have any data books for this device. I am looking for specs such as:

- Power Out
- Cin
- Cout
- Rated Voltage
- Rated frequency range

Is this the Japanese version of a CB radio output transistor?

Thanks much!

- Dan Tayloe, WB0NVB, Phoenix, AZ QRPL # 696

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [571] SURPLUS EQUIPMENT FS
Message-ID: <199609271702.SAA13104@mail.enterprise.net>

Have the following for sale or swap:
AMT3 amtor/rtty unit, with software.
Sell for 75 UKP plus postage, or WHY to swap?

--

Frank G3YCC (G QRP 042)
QRP Web Page:
<http://homepages.enterprise.net/g3ycc/>

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: camqrp@cyberg8t.com (Cam Hartford)
Subject: [592] Ten Tec 544
Message-ID: <199609271925.MAA12411@key.cyberg8t.com>

> Gang,
> What is a TenTec Model 544?
>Whats it worth?
>I happened across one, but dunno what
>it is.
>
> Mike
> NQ7K

Mike -

The Ten-Tec 544 is a Triton IV with a fancy numerical name (Triton turned out to be a trade name of some smaller company like Motorola). Think of it as an Argonaut 515 on steroids - pretty much the same circuitry, but with an 8-pole filter and a 100 watt amp.

I used my Triton IV for many years as a QRP rig just by turning down the power. It still gets used here, although its been moved to the garage to make way for a Corsair II (sorry, Chuck, but it is a beauty).

I've seen a few 540s and 544s at swap meets in the \$250 - 300 range, which is actually a bit less than what a good 515 goes for. It doesn't have all the bells and buttons of a new rice burner, but a very good performer for a new ham or as an inexpensive backup rig.

72/73,

Cam N6GA

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [610] Tube QRP safety (50C5 xmtr.)
Message-ID: <n1368276339.20532@msmailgw1.arlut.utexas.edu>

Aspiring tube rig constructors,
Those little glow rigs that operate directly off the AC line can be made much more safe for the operator if you will do the following:

If you have access to an AC line isolation transformer, use this and a fuse in

series with the AC to prevent unlimited current flow to yourselves if you (or when you!) get across the high voltage side of this circuit. Be aware there is a mighty bite at the key contacts of these as well when key is up. (Insulate the connection posts on your hand keys!)

Now, if you have nothing more than Radio Shack or junk boxes available to you, simply go down and get TWO identical AC to low voltage (filament) transformers, and have the AC side of one go to the fuse and line cord to the AC supply, and the secondary connect to the same voltage secondary of the second transformer, whose primary now becomes an isolated 115 VAC supply to the rectifier power supply. In the early solid state rectifier days we used a series diode surge resistor of 10 to 100 ohms if I remember correctly, but use of high current rated, and 1000 PIV silicon diodes of modern manufacture, may not require them. But it is still a more gentle way of charging the electrolytic capacitors, and if they are old stock, you do want to bring them up gently on high voltage, to reform the dielectric.

Note that VARIAC transformers are NOT isolated, as they are an Autotransformer, (one winding on the AC line, tapped) and what is needed is a path to the AC mains that is only magnetically coupled, for true isolation, and current limiting.

Another safety feature is to not rely on the enamel insulation of the coil winding under the secondary antenna link winding, but to either cover this area of the coil with thin electrical tape, or use hookup wire with plastic insulation as the link windings.

Remember to NOT work on live high voltage circuits or at least to keep one hand in the pocket. Bleed off the power supply caps before probing one of these circuits. A resistor on clip lead and insulated probe is useful for this. No arcing and sparkin'!

72, Stuart K5KVH (Anyone have the Popular Electronics 6AQ5 Sandwich Box Transmitter schematic circa 1958-1959?)

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Chuck Brudtkuhl" <cbrudtk@uswest.com>
Subject: [564] Tuner efficiency ... flawed
Message-ID: <n1368305692.10056@ntsqm1.mnet.uswest.com>

If I have read the posts correctly I find several test method flaws here. The way I read it, you have the following in series.... tx tuner ... wattmeter ... dummy load. First and foremost is "how do you know the input to the tuner is constant?" Assume? Second, I am not familiar at all with a "WM-1" so do not know how it "reacts" to different input/output Z's and this is a concern as you are using the WM-1 to derive supposed ACTUAL PRECISE

readings..

Here is the setup I have used with repeatable results in making COMPARISON tests of many tuners. This could be modified easily to make actual efficiency tests, just never felt a need to.

I always have used an actual antenna load as it was "convenient" and nearly all my testing has been around balanced tuners. In series tx Bird 43 tuner "indicator"... antenna. In my case the "indicator" is a Jones MM-1 (Old Balanced Line SWR meter), but r.f. ammeters would work better for several reasons. The use of ammeters would allow some real efficiency readings, would show true balance of tuner, etc.

The testing is basically the action of tuning the matching unit for maximum output, then reducing/increasing tx output until the "indicator" indicates a "standard reference" reading that you will use for all following tests on this band. One does this for each band, then place the comparison tuner in line. Set up this tuner for max output and adjust tx power for the same reference reading. The difference in INPUT powers to the tuner indicate the effectiveness. One does not really care how the indicator on the output of the tuner responds to freq/impedance as each test/band is always looking at the same freq/impedance. One is not after an absolute reading on the indicator...just a reference reading. With the Bird on the input to the tuner, one KNOWS what one is looking at and can determine the accuracy of the reading.

Whereas your test method allows (you think) to state the actual power outputs of a tuner (the "you think" part stated cause you don't know the power input for those power outputs), my method allows one to state that for a given standard output, I must drive the tuner with x watts. This allows us to compare tuner 1 with tuner 2 with tuner 3 etc.

ps...there was a series in one of the mags in the last yr or so on tuner efficiency....have not had a chance to read em yet, but do have them pulled.

73 de WA0ROI
Chuck

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: JCoote@aol.com
Subject: [612] Tuner efficiency measurement
Message-ID: <960927204441_112761512@emout16.mail.aol.com>

A few ideas on measuring the efficiency of tuners:

How about using other types of wattmeters such as Bird 43's?

How about measuring E-Squared across R_{in} and R_{out} to get efficiency, and also trying several values of R_{out} to get a better idea of how the tuner performs when the resistive load is other than 50 ohms? Most of our random-wire and balanced antennas are not 50 ohms.

73, Jay

WB6AAM (Soon to be other than WB6AAM, hopefully)

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996

From: JEVERHART@cayman.vf.mmc.com

Subject: [560] W1FMR 1996 QRP Afield (fwd)

Message-ID: <960927095055.20213994@carib.vf.mmc.com>

Gang,

(See, I *can* spell right if I try real hard!)

Here is another e-missive from Jim Fitton.

72/73,

Joe E., N2CX

*****Forewarded Message*****

1996 QRP-Afield

W1FMR/1 in Saco Maine.

I had a church outing that weekend in Saco Me, so the QRP-Afield contest had to be a divinely inspired event.

Saturday morning I drove up the coast a short distance and found a commercial fishing pier with 15 foot high arc-lamp supports. These would make low, but fine antenna supports.

Not nearly high enough for my trusty 50 foot endfed long wire, but they would be ideal for a low dipole. I had an N2CX Gusher II dipole kit tucked away for just an occasion as this.

It took about 20 min. to measure, cut and assemble the dipole for 7.040 MHz. The clever kit hardware is very well suited for getting up and running on any band, in a hurry.

The antenna was 25 feet above the water at the center and sloped down at the ends.

The Autek RF-1 Antenna analyzer made quick work of resonating the antenna and showed I had to cut 7 inches off each end.

Since my GM-20 transceiver kit did not get finished in time for the contest, I was disappointed not to be able to contact Paul, NA5N and the NM desert lighthouse gang, or Ron, KU7Y from NV. Wait til next year.

However, a couple of beautiful young ladies did stop by, wanting to know about Morse code, and what I was doing. Later, as I was operating beneath the pier in the shade, a fisherman "accidentally" dumped a pail of (bilge?) water over the side, and got me. I decided it was time to go for a walk to let the earphone pads dry out. I wonder what the hell was in that bucket ?

Later still, an old gentleman (slightly older than I) brought a old tube type aircraft radio from his attic to show me. I in turn showed him how he could get it running, and use it.

That evening, the sunset over the bay was exquisite but with it came many mosquitoes to help me take the antenna down (in a hurry).

Another really terrific contest. Thanks to Chet, AA1EX !!!

Operating Statistics

Rig - NC-40

Pwr - 2 W.

Ant - Gusher II dipole

QSOs - 26

Loudest station worked - K3TKS

Most frequently heard station - WB3GCK

Hardest station to work - NN9K

Most enjoyable QSO - WK8S

Weirdest Callsign worked - CH3Y

Warm Fuzzy QSO - WA4KAC

Only W1 station - W1NRG

Goal for next year :

Spell out my state - Maine..... No one knew what Me. meant.

Complete the GM-20 and try a vertical dipole over the water.

On the same support, use the Gusher II again for 40m.

Try to find those young women again ;-)

Excellent event - Thank you all for participating....

72 Jim W1FMR

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Dan Tayloe-P26412" <Dan_Tayloe-P26412@email.mot.com>
Subject: [596] Wonders of the Web!
Message-ID: <M27201275.005.eqso7.1.960927201233Z.CC-MAIL*/OU=SATCG/OU=AZBH/
PRMD=MOT/ADMD=MOT/C=US/@MHS>

About two weeks ago I filed for a draw on a new call. I have moved from Chicago, and needed to file a change of address anyway.

I have not heard from the FCC yet, but checking the call server, I have found my new call is KK7BD. I guess I am now KK7 "Big Dog" (running QRP!).

I wonder now which call to use. I would kind of like to break in my new call this weekend on 40m cw QRP (Hi!).

- Dan Tayloe, KK7BD, ex-WB0NVB, Phoenix, AZ QRP-L #696

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [568] Yet more questions on gel cell charging
Message-ID: <1.5.4.32.19960927163410.00677b54@postoffice.worldnet.att.net>

I finally got around to trying to test my 5+ year old 10AH 6v gel cells. They've been pretty much dead ever since I found them in a scrap bin. I don't have any special charging circuit built, so I just used a power supply I had built.

Here's what's happening: I hooked the batteries in series so I could use my 12 volt charger. Actually, the charger has a 7815 in it, with 1 diode across the positive output to drop the voltage a little. I did this while building, thinking I would actually be getting 15 volts out. Under the load of the batteries, it's actually around 13.7 volts. The batteries have been hooked up for almost 12 hours, and have never drawn more than 13.5 mA. Now, aren't these things supposed to draw a high amount of current initially, then taper off to a much lower amount? The current draw started out around 9 mA or, and gradually climbed to the 13.5 mA point, and then tapered back down to the present level of 9.6 mA. Actually, I just went and checked on them, and the DVM is flickering, and slowly rising again. The voltage level has changed a little over time, but nothing more than a couple tenths of a volt.

Are these things shot? Is there any way to blast them back to reality? I recall someone mentioning on here a little while ago something about reverse charging cells, and being fairly successful at reviving apparently dead batteries.

Thanks &

73,
mike KD0FX
Richland WA QRP-L #576

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Kevin Muenzler <wb5rue@amsat.org>
Subject: [606] You know you are running too much power when...
Message-ID: <01I9ZAILTYV8AW5085@ARWEN.UTHSCSA.EDU>

You know you are running too much power when...

- 1 You flip on the power switch and the lid on the power supply is sucked down with a loud "WHUMP"
- 2 You key up and scorch the paint off of low flying aircraft.
- 3 You Double click the mic and the "EMP" alarm are triggered at N.O.R.A.D
- 4 The power company calls to ask you if you want the 220 3 phase lines in your home upgraded.
- 5 Your wife enters the radio shack and set's a frozen tv dinner on top of the amp and tell's you that you need to key down for 4 minutes before dinner is finished.
- 6 Your electric bill rivals the national debt.
- 7 Superman steers clear of your antenna

:)

Kevin, WB5RUE

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Marshall Emm <75230.1405@CompuServe.COM>

Subject: [569] [JOKE] Rejected Names for Win95
Message-ID: <960927162847_75230.1405_HHB58-2@CompuServe.COM>

This just in from:
Kevin Hawkins, Tech Support Grunt
EarthLink Network, Inc.

Rejected Names for Windows 95

- ~~~~~
1. Stayfree MaxiWindows
 2. Windows Ultra Bold
 3. Hootie and the Windows
 4. Sugar Frosted Toasted Honey Windows
 5. The Artist Formerly Known as Windows 3.11
 6. OS/2 Lite
 7. Microsoft Robert
 8. McWindows
 9. Mighty Morphin' Power Windows
 10. Start Me Up. Restart Me. Restart Me. Restart Me.
 11. Bill's Interactive Graphical Architecture Software System (rejected because they didn't like the acronym)
 12. H O L L Y W I N D O W S (In big White letters across a mountain or hill on the front of the Box)
 13. Windows Wheneverwegetaroundtopublishingit
 14. Windows 90210 - it doesn't really do what it's supposed to, but teenage girls will like you when you use it.
 15. The Ex-File Manager: Trust No One Except Us
 16. Computer Hardware Upgrade Starter Kit
 17. Late Night With Bill Gates
 18. Borgware - resistance is futile
 19. Barney: The Operating System That Loves You
 20. Apple Turnover
 21. We'll BILL You and Windows \$95 (upgrade)
 22. Plan 9 from Microsoft
 23. Windows for Weebles
 24. Microsoft should have licensed from Paramount the name "Windows, The Next Generation." Instead of a "Start" button, we would now be using the "Engage" button. "Send To" could be changed to "Beam To." "GPF's" would be referred to as a "Warp Core Breach." DeForrest Kelly could be added to the boot screen, with a wave file claiming, "I'm an Operating System, not a DOS GUI!" Finally, if Microsoft could get him, the next version could be called, "Windows, The Wrath of (Phillipe) Kahn."
 25. Safety Windows (It still may break but the pieces won't kill you)
 26. Windows 24 (It's more than 16 but less than 32)
 27. Windiseltzer + (If you bite off too much NT, use this for relief)
 28. Deep Dish Windows (Chicago Style)

Kevin Hawkins, Tech Support Grunt
EarthLink Network, Inc. | Voice: 818-296-2400
Email: jedihawk@earthlink.net | Fax: 818-296-4134
Support: support@earthlink.net | 3100 New York Drive
http://home.earthlink.net/~jedihawk | Pasadena, CA 91107

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Kevin Bunin <p014455b@pbfree.net.seflin.lib.fl.us>
Subject: [573] Re: 80M CW Net Protocols?
Message-ID: <Pine.3.89.9609271356.A23705-01000000@pbfree.net.seflin.lib.fl.us>

Okay, Jack.

9RN is the Ninth Region Net of the NTS (National Traffic System) of the ARRL. It is on 3.641 Khz at 7:30 CST and 9:30 CST.

A good publication on NTS and traffic nets is the ARRL Public Service Communications Manual. It has 5 full chapters on Traffic Handling and NTS, with gull explanations and procedures.

DO NOT BE INTIMIDATED! All stations are welcome and the NCS will slow down to accommodate your CW Speed, although the 9RN is a rather advanced net, you probably would want to meet your section net which is listed in the 1996 Net Directory. If you are in 0-Land, there is a net for you.... KYN is the Kentucky section net, QFN is Florida, TEX is Texas and so on. There is a Region net for 0-Land called TEN (instead of the number 10) which meets on or near 3678 Khz. about the same time as 9RN.

The area net for the middle of the country is appropriately called Central Area Net which handles the Region reps and is quite fast and more advanced than you might want to try.

Find your section net (I cannot tell you right now, I do not have my net directory with me, and I do not have the call sign database to know your state or ARRL section. Your Section Traffic Manager (STM) could help you immensely. Look in QST under Field Forum and your STM will be listed at the beginning of the column along with any phone number or email address (usually)

I can send you the information this evening when I get home if you like.

73 and please feel free to join in, we always need good traffic handlers on CW in every part of the country.....tell them I sent you hi hi.

de KB WV5Z STM Southern Florida Section.

Kevin Bunin
p014455b@pbfreeenet.seflin.lib.fl.us

On Thu, 26 Sep 1996, KB0PJE /5 Jack Dougherty wrote:

> I finally found some traffic on 80M tonight. Obviously a net, but I
> have no idea what or how the flow is in a CW net, so I shied away from
> joining, as I didn't want to mess up those guys. The net was VERY well
> done with smooth exchanges, but also pretty intimidating, as I only
> understood the occasional "GE", call signs, and "73". Can someone steer
> me to where to do some reading/get educated about:
>
> I hear the net control guy sending 9RN 9RN, what's that??
> I hear some XL and CY and KYN being sent often, what's that?
>
> I looked in the '96 handbook, but that was no help except for the QNx
> series. Where to find the other stuff??
>
> The net was on 3.641 at 01:00 UTC if that's any clue.....
> Thanks CW NETsters,
> KB0PJE /5
> Jack /Houston
>

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Kevin Bunin <p014455b@pbfreeenet.seflin.lib.fl.us>
Subject: [576] Re: 80M CW Net Protocols?
Message-ID: <Pine.3.89.9609271347.B23705-01000000@pbfreeenet.seflin.lib.fl.us>

If you are in Houston, you are in the fifth region RN5.....your section net is TEX and meets on 3643 at 7 pm your time and again at 10 pm your time. They send a Rep to RN5 on 3650 Khz at 7:30 pm your time and again at 9:30 pm your time. (CST).....the net manager for TEX is Dave, WD8LDY, in Dallas. He is on packet as well and I am not sure if he has an email address, Jack.

You should hear all of the Texas stations pretty well from Houston and I know they need a Houston station to QNI (check in) The net runs at a slow rate of CW speed normally. When you need to check into this net send a character such as the last letter of your call.....Net Control will

acknowledge it by sending it back to you....this means go ahead and check in....send DE KB0PJE/5 QRU AR (QRU...I DO NOT HAVE ANY TRAFFIC), the chances are NCS will ask you for your name and your QTH (Location) give it to NCS and you on the log. If you check in fairly often you will probably be put on the newsletter mailing list for the net.

I still say the Public Service Emergency Communications Manual and the 5 chapters on traffic handling in the NTS is a good bet for you. It has Q sigs specific to traffic handling nets on CW and other good things you should know such as proper message format....enough already
bye again Jack and good luck. (K5RG, Ken) lives in Houston and is a big macher in the nets.

73 de KB WV5Z

Kevin Bunin
p014455b@pbfreenet.seflin.lib.fl.us

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Claton Cadmus" <aplitech@spacestar.com>
Subject: [579] Re: Adapting Audio Amp and Speaker
Message-ID: <199609271809.NAA29811@Spacestar.Net>

Edgar WR8Z asked:

>I am in the process of adapting a Radio Shack small audio amp and speaker to >my HW-8 rig. I already know that the audio amp runs with 9 volts. I have >to identify the best source for this power from within the HW-8, reduce it >from 12 volts to 9 volts and then try to put it all self enclosed inside the >radio chassis. Has anybody done this before? Any help or pointers are >appreciated.

I did this some years ago. If you have the schematic I think you will find that the small board mounted on the right side (front toward you) is the original audio final amp. It was designed to drive headphones only. I believe you can remove this amp and simply use your replacement in it's place and still have enough audio drive. Check carefully though as my memory isn't what it used to be. Best source for 9 volts would be to add a 7809 regulator. There is 9 volts in the rig as I recall but it's for the VFO, best to leave it along.

Hope this helps.

Claton Cadmus |73 de KA0GKC
Application Technologies Inc. |ARRL, QRP-ARCI, NorCal
Ph. (612)926-8886 |ARCC, MNQRP&HB Society
Fax (612)926-8545 |ka0gkc@ka0gkc.ampr.org
E-mail cla@spacestar.com |ka0gkc@wb0gdb.#stp.mn.us

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Mike Duke <gmduke@oscar.TECLink.Net>
Subject: [614] Re: bare essentials xmtr
Message-ID: <Pine.SOL.3.91.960927202413.60B-100000@oscar.teclink.net>

I would have answered this one sooner, but local provider has been unable to transmit. The person who told you to check in Electronics Illustrated is correct. I think it's March, 1968. If not, try January or May. Sorry, I no longer have the magazine, but I remember scrounging the parts, and I remember my novice friend getting a 599 from an OO in MA on 14.350. Not bad for 17.5 watts input and a 40 meter dipole.
73, Mike, WB5ADC, Jackson, MS

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Richard Mulvey <mulveyr@frontiernet.net>
Subject: [557] Re: coax splicing
Message-ID: <199609271255.IAA62476@mail.frontiernet.net>

>

Dave:

You would be much better off spending \$5.00 on a pair of PL-259's and a female/female SO-239 connector. Even Radio Shack has them. :-)

- Rich

> hi all,

>

>

> i would like to know if anyone has ever tried to splice rg-8 coax .

>

> i recently put up a fourty foot tower but i must save my pennys to
> purchase new 9913 coax for my 70cm and 2mtr beams . in the mean time

> i have two sections of rg-8 which will be useless when i buy the
> new stuff. the rg-8 (if spliced) would be long enough to use on
> at least my 2 mtr beam .
>
> i have a roll of thin copper tape which i think may work as a shield
> at the splice since it would be very hard to solder the braids
> together .
>
>

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [558] Re: coax splicing
Message-ID: <Pine.OSF.3.91.960927091555.28283A-100000@saturn.acs.oakland.edu>

On Fri, 27 Sep 1996, Richard Mulvey wrote:

> You would be much better off spending \$5.00 on a pair of PL-259's
> and a female/female SO-239 connector. Even Radio Shack has them. :-)

Yeah, but you REALLY want to get some of those silver plated PL-259's
that you see at the swaps, and some silver plated adapters for the size
of coax you plan on using.

The silver plating is the key to these things it is well well worth the
price. I can not believe how easy they are to solder... even the braid
can be soldered easily.

73 =paul= wb8zjl

ObVanity Calls : One of the local yoyos got his OLD novice call back! He
now has WN8---, a 2x3 and he had a pretty nice N8--- call!
This is pretty dramatic evidence that a lot of people don't
want to be considered "newbies." Even at \$30 to do it.

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [605] RE: Coax Splicing
Message-ID: <19960927.172644.7815.0.wb2vuo@juno.com>

Just was looking thru the RSGB "VHF/UHF Manual", and they have a couple

of antenna articles where they ARE splicing cables. The method used was to fan the braids out, twist it into two leads and solder the same to a "small piece of Tinplate..." The center conductors were then soldered together, spaced off the tinplate with the center dielectric.

I have used this method on the HF/DC bands for 30 years, basically thinking that it was no worse than the "bump" that you get connecting to the back of an SO-239 chassis connector. Now having an Auttek RF Analyst, I swept a few of my spliced cable runs in the shack (and bark), and find no deterioration in the performance compared to the "proper" connector.

I would hesitate doing this with an exposed connector, i.e. one out in the WX, but it works for inside runs. And, instead of the "Tinplate", I use small scraps of G-10 PCB, with 1 oz copperplate...

72/73, Keith, WB2VUO, QRP-L #582
Trustee, KB2YTW/B 10 Mtr Beacon (28.2860 MHz)
"In the Depths of the Great Bergen Swamp...FN13ac"

BTW: getting an "old" Novice call back isn't that unusual, and one of the members of RASON (Norwich, CT) did it back in the 70's (he got KN1DPS) because of the unique prefix for WPX and other awards (among other reasons)

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: JEVERHART@cayman.vf.mmc.com
Subject: [559] Re: Europe for QRP Weekend Contest
Message-ID: <960927093507.20213994@carib.vf.mmc.com>

Gnag,

Jim Fitton is having e-mail problems due to a company e-mail system change (can't AT&T get even THAT right?). He asked me to pass this note along to you all.

72/73,

Joe E., N2CX

*****Forwarded Message*****

Re: Europe for QRP Weekend contest.

This weekend, from 1600Z on 27 Sept to 2359Z on 29 Sept.

See SPRAT Winter 1995/6 for rules.

5 Band CW QRP contest.

Logs to Peter, OK1CZ

Good Luck

W1FMR

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: N5EM@aol.com
Subject: [603] Re:FYBO Winter QRP FD
Message-ID: <960927165705_318915306@emout12.mail.aol.com>

Joe,

I think that you have a winner here. On my calendar - looking forward to a blue norther to equalize things a bit.

Ed, N5EM

From owner-qrp-1@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: rhight@primenet.com (Roger Hightower)
Subject: [611] Re:FYBO Winter QRP FD
Message-ID: <199609272341.QAA00615@primenet.com>

At 04:57 PM 9/27/96 -0400, N5EM@aol.com wrote:

>Joe,

>

>I think that you have a winner here. On my calendar - looking forward to a
>blue norther to equalize things a bit.

>

>Ed, N5EM

>

You gotta be kidding, Ed! I suffered through one of them near Amarillo whilst huddled in a small pop tent with my dog. Lord, was it cold....and shall I tell you about the wind?

Stuck my head out to see if the Jeep was still there, and there was ice on my mobile HF antenna. Can't imagine trying to use a key when it's that cold.

72/73 de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: HANDS@rf-kits.demon.co.uk (SHELDON HANDS)
Subject: GQRP - GQ Transceiver

Production of the club GQ cw transceiver today hit 240 sets. The BUG list is now well out of date and any constructors of early kits are advised to get hold of a copy of the latest manual [=A33 post paid from me]

The June issue of QST carried a review of the GQ40 and the ARRL lab test gave it the best results of the kits reviewed. Together with spectrum test's from the NA5N QRP DATA BOOK the figures are-
:

Minimum discernable signal -127dBm
Two-Tone dynamic range 91dB [20khz tone spacing]
Blocking dynamic range 127dB
Filter bandwidth 570hz
Tx 2nd harmonic -58dB
Pwr 7.4 watts

Constructors wanting a bit more IF gain may like to try the following. Remove R13 and replace with Toko 283AS-101 7BS choke. It will be necessary to reform the leads as the choke is designed for a 0.2 pitch. The choke is self resonant at 4.4mhz and makes a dramatic difference. As the isolation of the DC feed is also improved you may try removing C85 for a smoother QSK.

Via GQRP-L - The G-QRP Club mailing list

73 - Bill Kelsey - N8ET
Kanga US
kanga@bright.net
419-423-4604
<http://qrp.cc.nd.edu/kanga/>

73 - Bill Kelsey - N8ET
Kanga US
kanga@bright.net
419-423-4604
<http://qrp.cc.nd.edu/kanga/>

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Rogerio Gonzaga <gonzaga@med.up.pt>
Subject: [552] Re: GQRP - Mods for MFJ9420
Message-ID: <198701280943.KAA07933@hipocrates.med.up.pt>

Hi, Frank,

About...

" From: "Frank G3YCC" <g3ycc@enterprise.net>
Date: Thu, 26 Sep 1996 22:56:58 +0100
Subject: GQRP - Mods for MFJ9420

I am modding my MFJ9420 SSB 14mHz rig to add CW. Has anyone the details of the CW add-on that MFJ supply, which they could send me, please. I have added a switch to select CW/SSB by adding capacity across the tuned cct., but wonder what form of keying is used. Possibly keying the 'tune' facility or applying a tone to the mic cct?

- --

Frank G3YCC (G QRP 042)

QRP Web Page:

<http://homepages.enterprise.net/g3ycc/>

- ---

Via GQRP-L - The G-QRP Club mailing list " ,

... I have added the CW facility to my MFJ 9420. The MFJ "kit" has everything on the PCB, including the switch and the sidetone. If you wish to use the later, you will have to desconnect a couple of resistors from the original PCB (easy and fast). If you use (as I do) the original microphone from MFJ, or a recommended compatible from Radio Shack, or one alike, you will not have to desconnect the micro when using CW, otherwise there could be some incompatibility with some micros. After installing the CW board, the re-alignment procedure is quite straightforward, but since I have mounted my CW kit I have noticed, sometimes, some instability in transmitting (it is not constant and I could not yet trace the cause of it; lately it has apparently stopped, so I am not caring to it anymore). However, even after turning the respective trimmer to the end, I could not match perfectly the dialing button with the exact frequency, leaving a difference of about 10 KHz (I am used to this kind of situation as I own an excellent MFJ 9020 that is always about 10 KHz less than the displayed frequency).

After adding the CW facility, the rig becomes a nice all purpose travel radio, although the outstanding SSB quality does not mate with the CW quality. The 10 watts SSB power on 13.8 V, or 8 watts on 12 V that mine pumps out instead of the 12.5 watts as advertissed, (but it is more than enough, with the powerfull speach processor, and it has the

advantage of coping with the SSB QRP power limit) lowers down, in CW, to about 8 and 5 respectively (the later could sometimes be slightly more than five, but my measuring equipment is not accurate enough to put it out of the QRP accepted CW power). However, the receiver filter, that is very good to SSB, becomes quite wide to CW. The absence of RIT, that is less necessary in SSB QRP work, is an additional disadvantage in CW. In a recent CQ (or would it be in 73 ?) review, someone suggested the use of the rig with an external DSP, the proposed one being the Radio Shack 40, now out of production but still available at a sale price in some USA cities. As a matter of fact I own one, but I did not try yet to use it with the 9420 because I did not have the time to create a headphone line on the rig (I do not understand why the guys at MFJ did not put one at the factory).

Of course there is no electronic keyer, but the use of a small and handy staight key is very appropriated for travelling...

Overall, I am very pleased with the SSB rig (I have overcome several pile-ups using just a GP aerial, including S. Tome, Malta and a couple of West Indian Islands), and the addition of the CW facility has been quite positive, as now I have an all mode small, robust, rough and ready rig for travelling. If CW operation is worst than with his MFJ 9020 little brother, it has the advantage of being performed without carrying on an extra rig.

I hope my information is usefull. If you need some more details, please E-mail me

Best 72/73 de Roger, CT1ETT, G-QRP # 8673

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>
Subject: [604] Re: HM-9 wattmeter vs OHR wattmeter
Message-ID: <324C3EDB.3B22@ix.netcom.com>

David Adams wrote:

>

> Greetings folks! I just purchased an unbuilt heath HM-9 wattmeter.

> Could someone in the know, tell me how this compares to the ohr
> wattmeter?

>

> 73 de dave, n9uxu---

> =====

> David J Adams N9UXU QRP-L #83

> dave@flowserver.stem.com NorCal QRP #1442

> (415) 813-5028

Flow Cytometry Specialist

Dave:

I hope this data helps you with your QRP Heath wattmeter:

Taken from the book:

"HeathKit, A guide to the Amateur Radio Products"

By Chuck Penson

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Medium Rare

Manufactured: 1983-1991 (during the ill-fated brown-box series of Heath)

Price: \$49.95

Ranges: 0-5 w, 0-50w

SWR Sensitivity: <1.5w

SO-239 connectors

Accuracy +/- 10% of full scale reading

3lbs. 5.5"x2.5"x7" (WxHxD)

Can be wired for one of three frequency ranges:

1. 1.8-30MHz
2. 50-54 MHz
3. 144-148 MHz

Be sure to note which range your unit is wired for.

Heath closed these out during 1991, and the remaing stock "practically flew out the door".

vy 72,73

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996

From: "Denton Bramwell" <denton@cyber-west.com>

Subject: [617] RE:Power splitters

Message-ID: <01BBACAF.BD0694C0@cyber-west.com>

A basic two way power splitter isn't complex, but building one that's = good over a broad frequency range isn't trivial. I just bought a = surplus Mini Circuits one that is good from 1 to 650 MHz from = Alltronics, \$30. See the June 96 QST, p 128 for their ad. =20

I wonder if a VCO is going to give you good enough phase noise?

Hope this helps... good luck.

Denton K7OWJ

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996

From: Alex Mendelsohn <alexm@pennwell.com>

Subject: [618] RE: QRP-L digest 495

Message-ID: <590E112E01E40200@smtp.pennwell.com>

Luke Enriquez VK3DLE <ecscclfe@lux.latrobe.edu.au> writes:

>For the last few months I've been using a 5-Band vertical trapped
>antenna. This antenna breaks up into several sections, each section sliding
>into or over the next. Between each section I have been using a grease
>called "Alminox". It is supposed to be a RF conductive grease for all
>Aluminium connections. It measured open on my multi-meter. Can someone
>explain why this stuff acts like a short circuit at RF. Will it work
>at QRP power levels?

Well Luke, I don't think you mean the grease reads open on your ohmmeter. I interpret your comments to mean that your ohmmeter indicates an open between the telescoping sections of your vertical antenna.

My guess (you know about DX troubleshooting, don't you?) is that the conductive grease is not the culprit. I suspect your antenna has been out in the weather for awhile. If so, aluminum eventually oxidizes. The aluminum oxide coating forms on any part of the mast that's not protected with something such as varnish or Krylon spray. Aluminum oxide is a very good insulator. In fact, it actually passivates, or seals, aluminum that's exposed to the elements. That's why it's not a good idea to paint an aluminum screen or storm door, for example. It's totally unnecessary, as once the oxide forms, no further destructive corrosion can occur.

Try poking through the very hard, crusty aluminum oxide with a sharp probe on your ohmmeter, or lightly sandpaper a small patch above and below the sections of your vertical's mast. My bet is you'll see good conductivity when you connect your meter to these shiny points.

BTW, I use a Thomas & Betts product called Kopr-Shield CP16 between my vertical's elements (I run a pair of physically short, top-loaded

ground-mounted verticals on 80 meters; they're phased and steerable). Kopr-Shield is used by electricians as a conductive, anti-corrosion compound applied to threads, wire strands and mating surfaces before being compressed by electrical fittings. It's composed of petroleum oil, copper particles, clay, alkylene carbonate, and zinc dithio carbonate. I like the way it works, although it does act as a bit of a lubricant, so you have to ensure all your clamps are thoroughly tightened.

Let me know if my long distance analysis sheds any light!

Vy 73, Alex, AI2Q in Kennebunk, Maine, QRP-L #687

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Mike Czuhajewski <wa8mcq@u1.abs.net>
Subject: [554] Re RFT00LBOX
Message-ID: <Pine.BSI.3.93.960927072946.8752B-100000@u1.abs.net>

Someone recently mentioned that there is an RF calculation program available via ftp from the qrp-l area at lehigh.edu, called RFT00LBOX, but I already knew that--I'm the one who put it there! I stumbled across it several years ago when I started working at my current job, and I've found it useful on occasions.

I haven't seen HAMCALC yet so can't make any comparisons, but it's probably safe to say that some or all of the functions of RFT00LBOX can be found in other programs; I don't think there is anything unique about it, but still worth taking a look at.

It was put out by Teledyne Microelectronics as freeware; they encourage freely sharing copies of it (as long as no modifications are made to the files and there is no charge). I don't know if it was ever upgraded; one of the menu options is a registration form, which entitles you to "free upgrades for 1 year" but I never heard from them when I sent it in. Heck, I don't even know if they still exist :-)

Here is the menu--

1. Cascade noise figure and gain
2. Resistive attenuator values
3. Inductance, reactance and Q
4. Capacitance, reactance and Q
5. Resonance and tuning range
6. VSWR calculations
7. VSWR reduction by attenuation
8. Noise figure measurement

9. Noise figure calculations
10. TSS with detector input [tangential signal sensitivity]
11. TSS with pre-detection gain
12. Power level conversions
13. Registration information
14. Teledyne information

I've used #2 many times. It gives the resistor values needed to make attenuators of any value you select, and it's pretty flexible. You can do either pi or tee designs; you can specify input and output impedance, and they can be different (such as making a pad to go from 50 to 75 ohms, which is useful if you find a great hamfest bargain on a 75 ohm step attenuator), and it gives the exact resistor values as well as the nearest standard values for 1, 5 and 10% resistors.

As I said, there is probably nothing unique and original in it (there are soooo many electronics programs floating around!) but it's worth a look--and it IS free.

73 and Queue Our Pea DE WA8MCQ wa8mcq@abs.net

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>
Subject: [598] Re: Specs for a 2SC2075?
Message-ID: <324C36D9.24BB@ix.netcom.com>

Dan Tayloe-P26412 wrote:

>
>
> I have some 2SC2075s that I received recently as a substitution for
> some MRF475s.
>
> I do not have any data books for this device. I am looking for specs
> such as:
>
> - Power Out
>
> - Cin
>
> - Cout
>
> - Rated Voltage

>
> - Rated frequency range
>
> Is this the Japanese version of a CB radio output transistor?
>
> Thanks much!
>
> - Dan Tayloe, WB0NVB, Phoenix, AZ QRPL # 696

Dan,

I received 3 of these puppies from Dan's Small Parts as a substitute for the MRF476s I had ordered.

When I checked them out in my S&S TAC-1, I got 2,3, and 5 watts output as compared to the MRF476 that was in it that gets 9-10 watts output.

So, I would say they are not as efficient or perhaps have different Z_{in} / Z_{out} , C_{in} / C_{out} , or perhaps the overall gain is not equivalent to the Motorola device. I was disappointed to see such a wide variation in observed P_{out} between the 3 devices I received.

I would steer clear of them, unless I had a design that used the 2SC2075 specifically. No data sheets here on them.

Just an observation. Now, anybody know where I can get some REAL Motorola MRF476s?

72,73

--

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [553] Re: Tuner efficiency measurements
Message-ID: <Pine.SOL.3.94.960927065833.13318E-100000@utkux4.utcc.utk.edu>

Paul's note on using an oversized tuner for maximum efficiency is a good reminder that we often neglect a significant problem with compact tuners: stray inductance and capacitance. For low band work, stray capacitance between components and the case/shield can produce (depending upon the network) both series and parallel capacitances that lower network efficiency. Most stray are low Q from a component perspective, and low Q is another way of saying loss. Too tightly packing components to each other and to a case is one way to achieve strays. Also note that even

though toroids are mostly self-shielding, they are not perfectly self-shielding: orientation and spacing do make a difference.

To test whether the right toroid material has been chosen (if any core material at all is correct), reproduce the SLT or other tuner design linearly with good spacing consistent with short broad leads. Then do A-B tests between the toroid and a linear coil of the same inductance. Hold all the other components in fixed positions for these tests to ensure that all error sources are constant and the differences are coming from the coil. You can do the same thing to test switched inductors: if the switching shows any losses, that fact will show up when the coil-switch combo is replaced by a fixed coil of the right inductance. You can even use this system to test junk box/hamfest capacitors you plan to use in a project: having a basic high quality capacitor that you can replace with the junker can tell you if it only looks grungy or is grungy at its electronic heart.

Since an ATU for the lower bands provides a range of inductance and capacitance that covers most of the combinations you are likely to encounter in circuitry for the same bands, you can use a known good quality component test bed where each component is replaceable for testing as a general test instrument for checking "power" components you find at flea markets once you have a. built it so that everything occupies the same space for each test session and b. have enough experience using it to know what and where the error sources are in order to properly interpret the results. Just do not let the test bed get grungy.

And please remember that miniaturization should not take priority over using materials with good RF properties. A good insulator for 60-cycle AC may not be for RF. A usable variable for the BC band may not be for 40 meters. Rotary switch insulation and contacts for DC meter circuits may not work as well at RF. Those "others" who use 100 or 1000 watts will discover their material selection errors by heat, fire, sparking, and burnout. QRPers may never detect the losses, but they may be there, nevertheless.

-73-

LB, W4RNL

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: lee@radioadv.com (Lee Richey)
Subject: [590] Re: Tuner efficiency measurements
Message-ID: <19960927191953148.AAA210@lee.radioadv.com>

I can't say much about the SLT since I have not seen one. I would not be surprised it find that it is form of the very popular "T" type circuit. If that is so, consider this. A "T" (or for that matter a "pi") tuner with three adjustments will have a wide variety of settings where a match is possible. Although the settings will all lead to a low SWR at the tuner input, they will result in a potentially wide range of loaded Q, hence a wide range of effeciency/loss. Ideally, you want to set the tuner for the lowest loaded Q which results in a proper match. I don't know how to do that since I don't use a "T" type tuner.

I use a "L" network tuner having only two adjustments. When adjusted for a match, the loaded Q is low. It is approximately the square root of the unmatched SWR. In most cases that number is pretty low, hence low loss/high effeciency.

I mention this because some brave soul may want to temporarily reconfigure the SLT as a "L" network and compare losses. It would make an interesting study I think.

-Lee- -WA3FIY-

<http://www.radioadv.com>

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Kevin Muenzler <muenzlerk@uthscsa.edu>
Subject: [597] RE: Wonders of the Web!
Message-ID: <01BBAC88.E3574E20@muenzlerk.uthscsa.edu>

On Friday, September 27, 1996 1:11 PM, Dan Tayloe-P26412[SMTP:Dan_Tayloe-P26412@email.mot.com] wrote:

>
> About two weeks ago I filed for a draw on a new call. I have moved
> from Chicago, and needed to file a change of address anyway.
>
> I have not heard from the FCC yet, but checking the call server, I
> have found my new call is KK7BD. I guess I am now KK7 "Big Dog"
> (running QRP!).

>
> I wonder now which call to use. I would kind of like to break in my
> new call this weekend on 40m cw QRP (Hi!).
>
> - Dan Tayloe, KK7BD, ex-WB0NVB, Phoenix, AZ QRP-L #696
>
>

If you are in the FCC database as KK7BD use it.

Kevin, WB5RUE -- forever

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>
Subject: [582] Re: Yet more questions on gel cell charging
Message-ID: <324C1AFB.5C6@ix.netcom.com>

Mike Boice wrote:

> SNIP
>
> Are these things shot? Is there any way to blast them back to reality? I
> recall someone mentioning on here a little while ago something about reverse
> charging cells, and being fairly successful at reviving apparently dead
> batteries.SNIP

Sounds to me like they are badly sulfated, and have a high internal resistance. In this case, lead sulfate forms hard crystals on the internal plates that interferes with chemical reactions necessary for battery activity. Sometime loose particles of plate separators and/or plate residue fall to the bottom of the battery case and also cause resistive short-circuits across the bottom of the cell and this tends to discharge the battery slowly as well.

A healthy battery has spongy lead peroxide and pure lead plates separated by a good insulator. Old or badly handled batteries form lead sulfate that is immune to further chemical cycles.

At this point, the battery has reached the end of its useful life. A lead-acid battery is permanently damaged by long periods of storage in a discharged state, exactly the opposite of a nicad cell that are best stored in a discharged state. Even a single complete discharge can greatly reduce a lead acid battery's life, or ruin it altogether.

Anything you do now isn't going to help much, although you can try a long slow charge to see if the battery is just fully discharged and

hasn't been dead for too long. In automobile batteries, some people add cadmium sulfate to break down the lead sulfate, thereby regaining some active plate area. This sometimes adds a little life to the battery and slows the formation of hard lead sulfate crystals, but a lead acid battery that is fully depleted and not quickly recharged usually suffers irreversible damage. And a gell cell or sealed lead-acid battery can't be opened or inspected. Unlike an automobile battery, you can't add distilled water, additives, or take specific gravity measurements to determine the battery state.

Note that a completely charged lead acid battery will completely self discharge in a couple of weeks or so if the ambient temperature is high. That is why your car battery will be dead if you go on a long vacation of more than 2 or three weeks with the car in a hot garage.

If it is bad, the only recourse you have now is to return it to a recycling center to prevent landfill contamination. Sorry.

72,73

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Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [609] Re: You know you are running too much power when...
Message-ID: <199609272236.RAA03499@multi2.pic.net>

With apologies to WB5RUE:

You know you are running QRP when:

1. You set your iced tea on top of the rig so the ice doesn't melt.
2. The electric company blacks out your neighborhood and you don't notice because you're in the middle of a great QSO.
3. The ham down the street calls you on the telephone to tell you that he can hear your key clicks, but you were just adjusting the key with the rig off.
4. You can't remember where to buy 9v batteries for your 40-9er.
5. Your next door neighbor has no idea you're a ham.

6. The sun sets on your solar panel, so you light a candle.
7. You get a 579 RST in a contest.
8. The receiver draws more current than the transmitter.
9. Chuck Adams QRMs you to death in a pileup.
10. You understand how your radio works, and you know who built it.
11. You wonder if the SWR meter is consuming too much of your power out.
12. The final transistor in your transmitter got zapped, so you just put a penny in its place.

From owner-qrp-l@Lehigh.EDU Fri Sep 27 23:14:08 1996
From: JDuffy@aol.com
Subject: [588] Re: [JOKE] Rejected Names for Win95
Message-ID: <960927151514_318846052@emout01.mail.aol.com>

Cute, but what does this have to do with QRP....even remotely. This list has entirely too many junk posts.

Regards,

Duffy - WB8NUT